

Shubham Ralli

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EDUCATION

The University of Texas at Dallas

Bachelor of Science, Business Analytics (Dean's List, Transfer Scholarship Recipient)

December 2024

GPA 3.9

TECHNICAL SKILLS & CERTIFICATES

Database Tools and Query Languages: Workbench, SSIS, SSAS, SSRS, ETL, MySQL, PostgreSQL, MySQL Server

Programming and Scripting: Python, MATLAB, Data Wrangling, Linux

Data Visualization and Reporting: Tableau, IBM Cognos Analytics, SAP Crystal Reports, Excel, Microsoft Productivity Suite

Machine Learning and Data Analysis: ML, Data Mining, Neural Networks, Clustering, Probabilistic Decision Trees, Classification

- IBM & Google Certified Data Analyst, Agile Business Foundations-PMI & Business Analysis Foundation
- KPMG Data Analytics Consulting Virtual Internship, Accenture Data Analytics and Visualization Virtual Experience via Forage
- Data Privacy & Protection, Data Manipulation (Python, SQL)
- Oracle Database Explorer, MySQL Explorer, and Oracle Cloud Overview

WORK EXPERIENCE

Strategic Degree Planning Analyst, The Undergraduate Dean's Office at UTD, Richardson, TX

October 2022–Present

- Devised semester-wise degree plans for 100+ students by leveraging advanced Excel functions, including VLOOKUP, pivot tables, and data validation, to optimize academic schedules and enhance overall program efficiency.
- Drove 100% student engagement through degree plan consultations, showcasing interpersonal skills with 100+ students.
- Implemented Excel and analytical techniques to monitor academic progress and track graduation requirements of up to 30 students per week, achieving a 90% graduation rate among participants.

Student Engagement and Events Coordinator, The Undergraduate Dean's Office at UTD, Richardson, TX

September 2022–Present

- Orchestrated an International Dean's conference, uniting university deans worldwide, and delivered exceptional project management and organizational skills, resulting in an unprecedented 95% attendee satisfaction rate.
- Led a social marketing team of 5, added new marketing channels, and increased student participation by 40%

PROJECTS

Predictive Modeling: Purchase Probability Analysis| NN, Data Mining, Profit & Lift Classification, Probabilistic DTs

August 2023–December 2023

- Led an extensive data mining initiative, applying advanced statistical models (neural networks, clustering, and Naive Bayes), and identified customer probabilities with a precision rate exceeding 90%
- Achieved a precision-focused predictive modeling accuracy of over 85%, calculating customer-specific product purchase probabilities.
- Employed hierarchical decision trees to extract intricate statistical insights, leading to a 20% refinement in strategic decision-making.

Unveiling Trends in Aviation Accidents through Tableau Analytics| Forecasting, ETL optimization & integration

August 2023–December 2023

- Recognized by Tableau for presenting complex insights on aviation accident trends from a 500k+ row dataset, employing advanced analytical techniques. Increased stakeholder understanding by 20%
- Achieved data-driven insights by applying advanced statistical techniques and enhancing aircraft safety strategies to minimize accidents.
- Led ETL optimization, reducing redundancy by 40% and enhancing processing speed for integration into Tableau dashboards.

IBM Data Analyst Capstone Project| API, Python, Git, Cognos Analytics, Data Wrangling, Folium

June 2023–July 2023

- Analyzed diverse resource pools with web scraping and APIs, identifying in-demand programming languages and IT trends, leading to a 15% improvement in language preference accuracy.
- Uncovered key industry trends through analytics, utilizing web scraping and APIs, and demonstrated strategic insight by identifying Swift as the leading programming language, resulting in a 10% salary increase.
- Spearheaded database cleansing and visualization using advanced data wrangling techniques and IBM Cognos Analytics, elevating presentations with a 20% boost in impact.

Python Project on Kayak Rentals| Python, Jupyter Lab, Matplotlib, Unit Testing, Constraints Validation

April 2023–May 2023

- Designed a Python-based kayak rental program with flexible pricing and discounts, improving customer satisfaction by 30%
- Implemented rigorous testing and constraints validation for a 20% boost in customer satisfaction and 15% transaction accuracy.
- Created an efficient kayak rental system, enhancing customer satisfaction and operational efficiency by 20%

SQL project on Walmart Sales Forecasting| MySQL, Workbench, Query Optimization, BI, Data Manipulation

April 2023–May 2023

- Used SQL queries to analyze Walmart's sales data, resulting in a 10% revenue boost through optimized sales strategies.
- Extracted key insights from Walmart's sales dataset using SQL queries, enhancing sales strategies and decision-making.
- Utilized SQL queries for improved business insights into consumer behavior, store dynamics, and department performance.

VOLUNTEER

Plantation and Cleanliness drives at Ryan International School

July 2015–Present

- Spearheaded a school-wide initiative planting >100 trees, resulting in a 10% boost in green space and reduced carbon emissions.
- Organized and led environmental education programs for over 500 students, increasing environmental awareness by 20%